FRANKFURT, H.O.

Determining the recurrence of loads in calculating windmill components for durability. Prom. aerodin. no.13:106-116 '59.

(Windmills)

(MIRA 13:3)

FRANKFURT, M.O.

Investigating aerodynamic loads of a wind wheel regulated by turning blade tips. Prom.aerodin. no.16:53-68 '60. (MIRA 13:8) (Aerodynamics) (Windmills)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413610008-8"

FRANKFURT, M.O. Calculating the starting moment of a low-speed wind-driven engine. Prom.aerodin. no.21:167-168 *62. (MIRA 15:4) (MIRA 15:4)

(Windmills)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413610008-8"

"""大学"

FRANKFURT, M.O.

Aerodynamic regulation of a wind engine by turning the windmill by aerodynamic forces. Prom.aerodin. no.26:5-46 164.

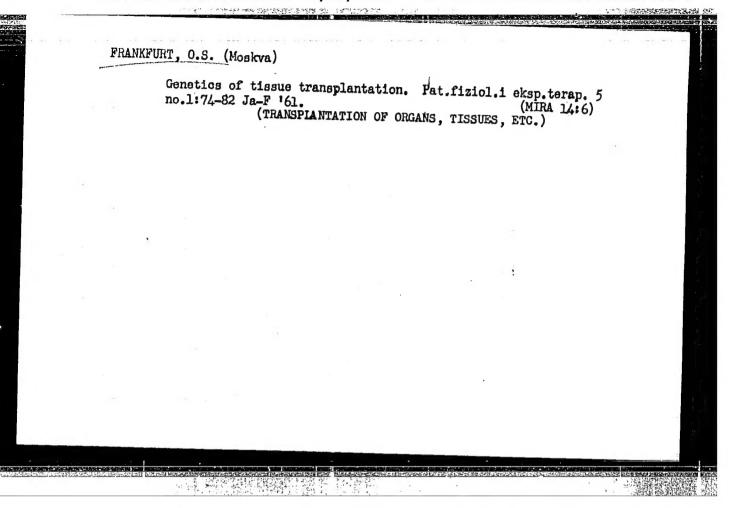
(MIRA 18:1)

FRANKFURT, M.O.; VOLOSTNYKH, V.N.

Changes in the forms of characteristics of the moments of windmill turns by means of end flaps. Prom.aerodin. no.26:79-87

(MIRA 18:1)

Increasing the pick-up and starting moment of a high-speed windmill. Ibid.:88-92



FRANKFURT, O.S. (Moskva)

Concerning Harold Stuart's article, "Cancer investigator."

Pat. fiziol. 1 eksp. tersp. 5 no.2187-89 Mr-Ap '61. (MIRA 14:5)

(UNITED STATES—CANCER RESEARCH)

(STUART, HAROLD)

FRANKFURT, G.S. (Moskva, Kutuzovskiy pr. 12, kv.361)

Nature of the difference in the staining of nuclei of normal and cancerous cells with ammoniacal silver. Vop. onk. 9 no.12:61-69 '63. (MIRA 17:12)

1. Iz gruppy eksperimental'noy onkologii (zav. - dr. biol. nauk L.P. Lipchina) otdela khimicheskikh i biologicheskikh protsessov (zav. - chlen-korrespondent AN SSSR N.M. Emanuel') Instituta khimicheskoy fiziki AN SSSR (direktor - akademik N.N. Semenov).

FRANKFURT, O.S.; LIPCHINA, L.P.; EMANUEL', N.M.

Effect of inhibitors-antioxidants (phenols) on the life cycle of Ehrlich's ascites carcinoma cells. Dokl. AN SSSR 153 no.3:699-702 N '63. (MIRA 17:1)

1. Institut khimicheskoy fiziki AN SSSR. 2. Chlen-korrespondent AN SSSR (for Emanuel').

X

FRANKFURT, O.S.

Effect of sarcolysime on the life cycle of Ehrlich's ascitic carcinoma cells. Dokl. AN SSSR 153 no.4:930-932 D '63.

(MIRA 17:1)

1. Institut khimicheskoy fiziki AN SSSR. Predstavleno akademikom N.M. Sisakyanom.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413610008-8"

ACCESSION NR: AP4010764

8/0020/64/154/001/0207/0209

AUTHORS: Frankfurt, 0.8.; Lipchina, L.P. (presented by N.M. Sisakyan, Academician, on 7.17.1963)

TITLE: Action of x-radiation on the cells of the Ehrlich ascite carcinoma as revealed by the radioautography method

SOURCE: AN SSSR. Doklady*, v. 154, no. 1, 1964, 207-209

TOPIC TAGS: ascite carcinoma, cancer cytology, mitotic activity, radiomimetics, timidine h three, cancer inhibitors

ABSTRACT: This study is a further development of a previous work by the authors (same journal 153, Nos. 3 and 4) concerning inhibitors of radical reactions and alkalizing compounds causing considerable changes in the life cycle of cancerous cells. Investigation results of x-radiations are inconsistent and prompted the present study. Mice of the BALB strain were injected with 10 million cells of the Ehrlich ascite carcinoma. Three days later they received a general exposure of 800 r with the RUT-200 installation (15 ms.)

Card 1/2

ACCESSION NR: AP4010764

Alo.5 mm filter, dose 41 r/min). Timidine-H³ (for tagging TH³, 3 curies/mmol) was introduced into peritoneum in portions of 5 micro the conclusion is that both chemical inhibitors and radiation block the transition from phase G₂ to M. Both chemical agents are radiothe transition from phase G₂ to M. Both chemical agents are radiothe G₁—S transition is only caused by radical process inhibitors and Such reactions were observed after radiation. Blocking of G₁, S phase distribution of cell division for 24 hours and changes the Inhibitors of radical reactions and radiation also influence the second generation of the S and G₂ phases, respectively. Sarcolysine great importance for chemio- and radio-therapy. Gratitude is expressed to N.M. Emanuel, corresp. member AN SSSR for discussion of Presults. Orig. art. has 4 figures, no formulas, no tables. Chemical Physics, AN SSSR)

SUBMITTED: 11Jul63
SUB GODE; OH, PH
Card 2/2

DATE ACQ: 10Feb64. NO REP SOV: 002

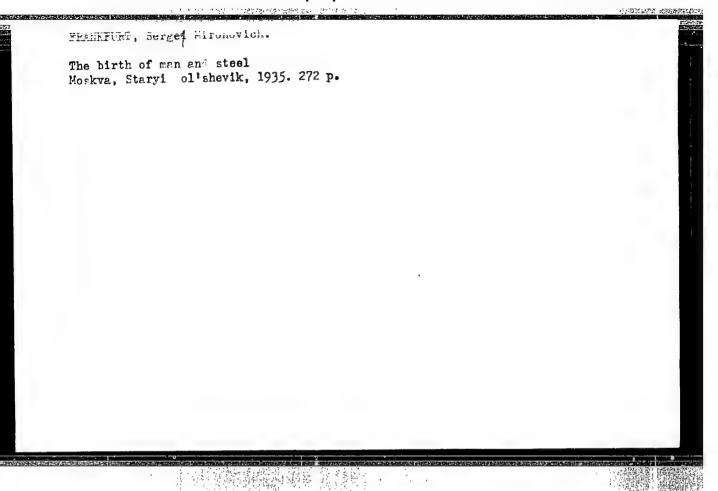
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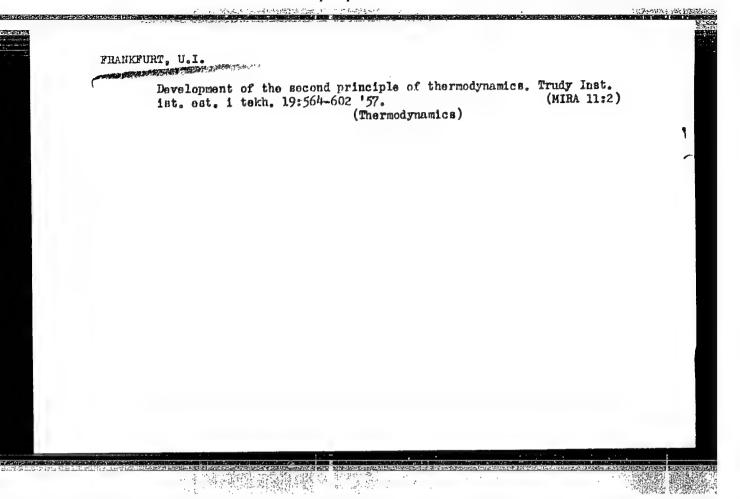
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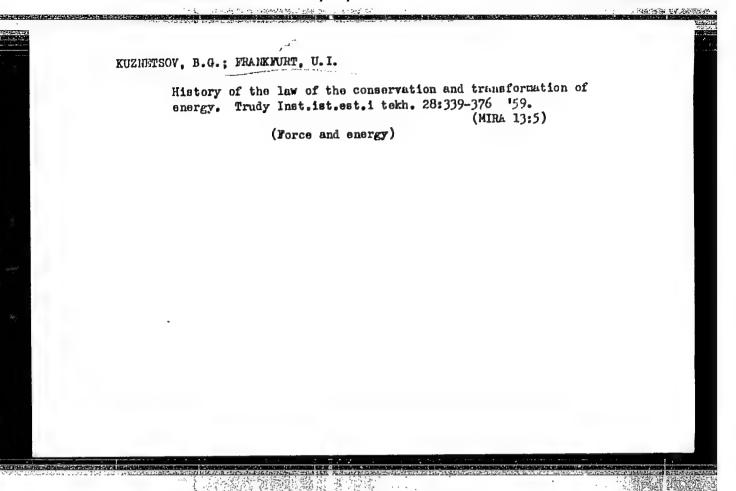
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1. Obdel khimicheskilh i binlogicheskilh probsessor Testituta khimicheskoy fiziki AN SSSR, Mostru.

24371 THANKTON, J. I. O bezzieltushnom leptospiroze. Vracheb. Dele, 1969, 30: Letopis, No. 32, 1949.







KOREN', N.N.; FRANKFURT, U.I. (Brest)

History of physical methods in determining the speed of light.

Vop.lst.est.i tekh. no.10;59-62 '160. (MIRA 14;3)

(Light—Speed)

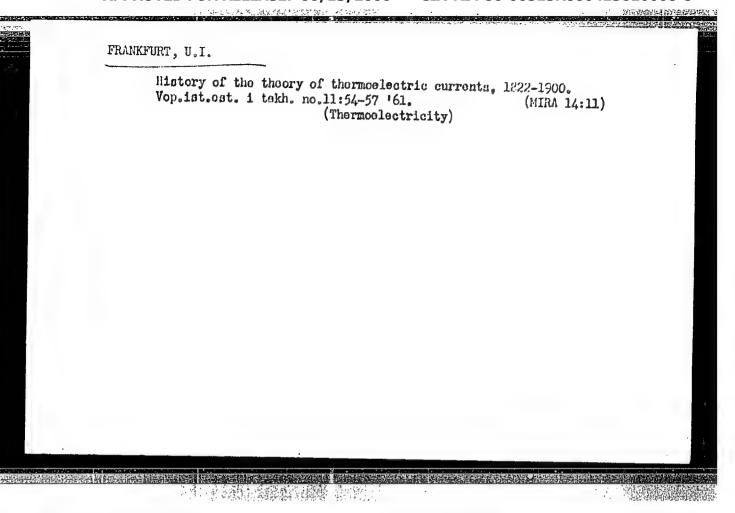
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FRANKFURT, Usher Ioynovich; KUZNETSOV, B.G., otv. red.; LARIN, S.I., red. izd-va; VOLKOVA, V.V., tekhn. red.

[Essays on the history of the special theory of relativity]
Ocherki po istorii spetsial'noi teorii otnositel'nosti. Moskva, Izd-vo Akad. nauk SSSR, 1961. 193 p. (MIRA 14:10)
(Relativity)

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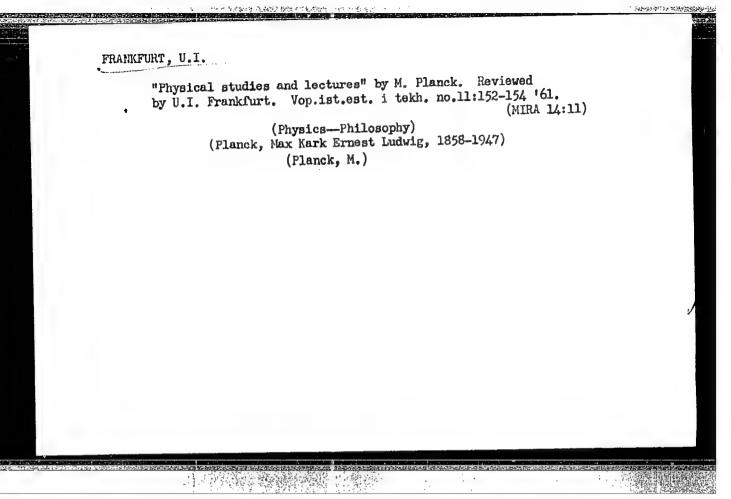
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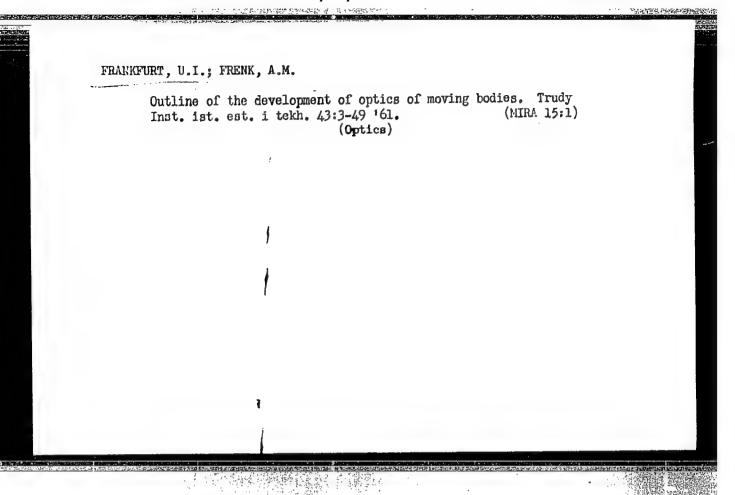


PAPLAUSKAS, A.B.; FRANKFURT, U.I.

"Johann Peter Gustav Lejeune-Dirichlet; documentary materials relating to his life and work" by Kurt-R. Biermann. Reviewed by A.B. Paplauskas, U.I. Frankfurt. Vop.ist.est. i tekh. no.11:154-155 '61. (MIRA 14:11)

(Lejeune-Dirichlet, Peter Gustav, 1805-1859) (Biermann, Kurt-R.)





FRANKFURT, Usher Ioynovich; FRENK, Aleksandr Moiseyevich; NIKIFOROVSKIY, V.A., red. izd-va; SIMKINA, G.S., tekhm. red.

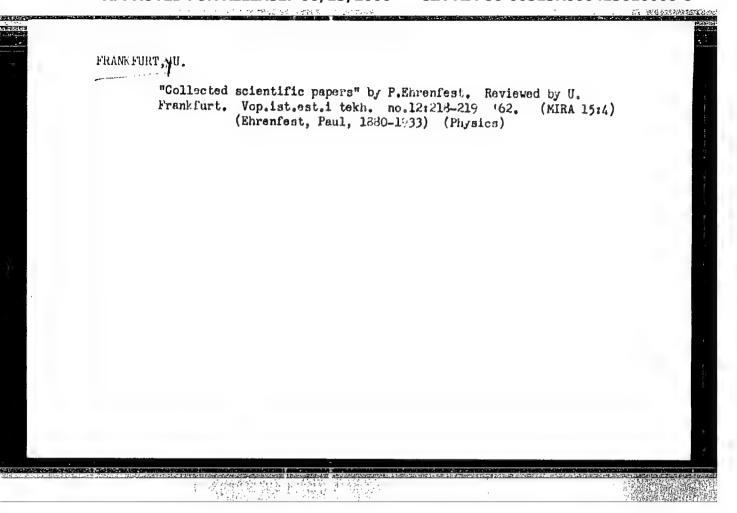
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"From the history of natural sciences and engineering." Reviewed by A.T.Grigor'ian, U.I.Frankfurt. Vop.ist.est.i tekh. no.12: 225-226 '62. (MIRA 15:4)

FRANKIV, Ye.M.

Adjustment by V.V. Popov's method, using a separate recording sheet. Geod. i kart. no.5:58-60 My '62. (MIRA 15:7) (Leveling)



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M.V.Lomonosov and evolution of the space theory. Vcp.ist.est.i tekh. no.12:108-118 '62. (MIRA 15:4) (Lomonosov, Mikhail Vasil'evich, 1711-1765) (Space and time)

FRANKFURT, U.I. (Moskva)

"Einsten" by B.G.Kuznetsov. Reviewed by U.I.Frankfurt.

Priroda 52 no.3:121-122 *63.

(Einstein, Albert, 1879-1955)

(Kuznetsov, B.G.)

FRANKTORT, V. T.

Examples in recomputation of metallic railroad bridges
Moskva, Goszheldorizdat, 1933. 126 p. (52-56241)

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	various formulae f and ring contacts.	The author states that it would be valual mechanical diagrams of machines from date catalogs. With this in mind he presents and monograms. His simple system can be machines with contact rings as well as for circuit machines of ordinary construction in USSR/Engineering (Contd)	"Calculating the Mechan Asynchromous Machine," Institute of Steel ine: "Vest Elektro-Prom" No	USER/Engineering Engines - Pe
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-	losed	be valuable to make from data found in presents formulae macan be used for all as for closed struction. Gives 26726	istic L. Fr	<u>.</u>
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FRANKFURT, Ya. L.

"The interrelationship of technological and power factors in the process of rolling metals", by Professor Ya. L. Frankfurt, at the Power Engr. Inst. im YRZHIZHANOVSKIY of the Acad. Sce. USSR.

SO: Elektrichestvo, No 5, Moscow, May 1947 (U-5533)

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USSR/Electricity Jul 48 Terminology		
"The Accuracy of Electrical Engineering Terms," Prof Ya. L. Frankfurt, Moscow Inst of Steel imeni Stalin, h p	4	
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FRANKFURT, YA. L.

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Po Provodu Prioritygta v soedanii

Elyektrichreskogo Brigatyglya (V svyaei So Stat'yey Mikhalovicha v amygrik.

zhurn. "Electrical Engineering", 1948, No. 11, Podvvergayushch yeşo somnyeniyu

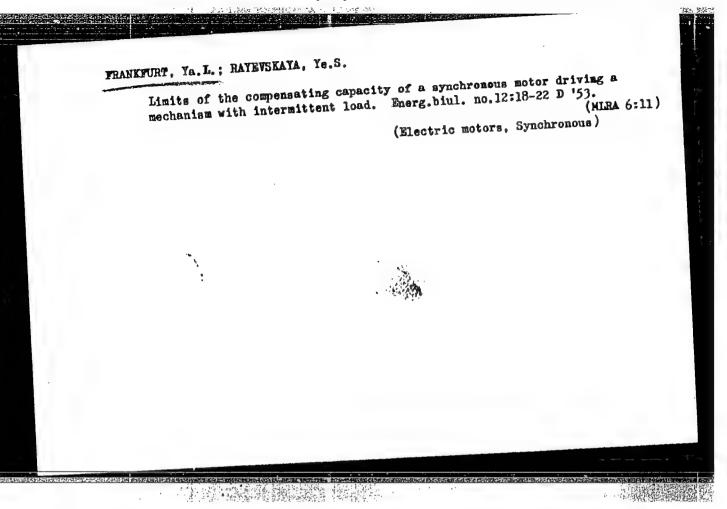
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FRANKFURT, Ya.L.

AID P - 814

Subject

: USSR/Electricity

Card 1/1

Pub. 28 - 6/7

Author

: Frankfurt, Ya. L.

Title

: Efficient feeder arrangement for sub-stations in the

oil field and refineries

Periodical

: Energ. byul., #9, 26-29, S 1954

Abstract

: Discussion of circuits proposed by various authors in Energ. byul., 1952, #1, p. 1, and #4, p. 18; 1952, #1, p. 25, #5, p. 20 and #9, p. 26. The improved system proposed by the author is supposed to eliminate unfavorable features of the analysed circuits. Eight Russian references (1952-1953).

Institution:

None

Submitted

No date

FRANKFURG YULL.

AID P - 1663

Subject

USSR/Electricity-Petroleum Industry

Card 1/2

Pub. 28 - 3/9

Author

Frankfurt, Ya. L.

Title

Single circuit three phase transmission line safeguarding

uninterrupted power supply

Periodical:

Energ. byul., 2, 10-14, F 1955

Abstract

The author describes a transmission line consisting of 4 wires to carry various up to 150 kv voltages, including 6 and 10 kv. The 4th wire is to be used if and when one of the three main wires fails. The application of automatic reclosure (APV) and automatic application of automatic reclosure (AVR) is presented and throwing-on of the reserve supply (AVR) is presented and illustrated with 3 diagrams. The author claims that construction of a 4-wire line instead of a double circuit construction of a 4-wire line instead of a double circuit saves initial expenses and that later, with expansion of needs, such a 4-wire line could be transformed into a double-circuit transmission line by the simple addition

of two wires.

CIA-RDP86-00513R000413610008-8" APPROVED FOR RELEASE: 06/13/2000

Energ. byul., 2, 10-14, F 1955

AID P - 1663

Card 2/2 Pub. 28 - 3/9

Institution: None

Submitted : No date

Frankfurt, ya. L.

AID P - 2014

Subject : USSR/Electricity

Card 1/1 Pub. 27 - 18/31

Frankfurt, Ya. L., Prof., Moscow Author

Works of M. O. Dolivo-Dobrovolski in the evaluation Title

of his contemporaries

Periodical: Elektrichestvo, 4, 75-78, Ap 1955

The author summarizes comments about M. O. Dolivo-Abstract

Dobrovolski's works which appeared during his life-time in foreign periodicals. Fourteen ref. (1888-1892).

One Russian - 1954.

Institution: None

Submitted : No date

FRANKHIRT - Ya.L., professor.

A.L.Linev, outstanding Russian pioneer in the city electrical transportation system, active participant of the building of the first Moscow streetcar. Gor.khos.Mosk.30 no.12:30-31 D *56. (MLRA 10:2) (Linev, Aleksandr Loginovich)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000413610008-8

FRANKFURT, Ya.L., professor.

Automatic control of wire-drawing machines. TSvet.met.27 no.3:55-63
My-Je '54.

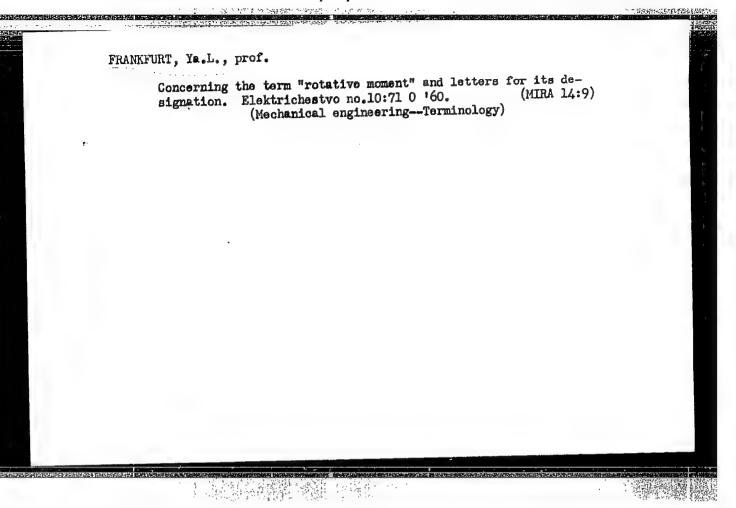
(Automatic control) (Wire drawing)

Some forgotten Russian pioneers in electrical engineering.

Trudy Inst.ist.est.i tekh. 26:101-117 '59.

(Electric engineering--Biographies)

(Electric engineering--Biographies)



AKIMOV, Vyacheslav Filippovich, inzh.; VINOGRADOV, Yuriy Ivanovich, inzh.; GINZBURG, Mark Yakovlevich, inzh.; KASPAR'YANTS, Konstantin Saakovich, inzh.; FRANKFURT, Yakov Mironovich, inzh.; MAMIKONOV, A.G., red.; NOVICHKOVA, M.M., ved. red.; VORONOVA, V.V., tekhn. red.

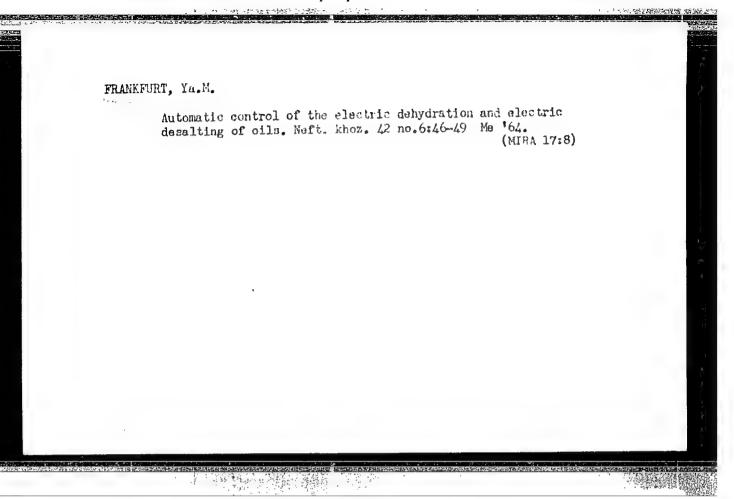
[Automation of field petroleum processing and gas transportation]Avtomatizatsiia promyslovoi podgotovki nefti i transporta gaza. [By]V.F.Akimov i dr. Moskva, Gostoptekhizdat, 1963. 166 p. (MIRA 16:3)

(Oil fields--Equipment and supplies) (Automation) (Gas. Natural--Pipelines)

SADYKHOV, I.D.; FRANKFURT, Ya.M.; ABDULLAYEV, N.D.

Evaluation of the quality of petroleum demulsification. Azerb.(MIRA 16:3)

(Petroleum-Refining) (Emulsions)



Radiology

YUGOSTAVIA

CIZMIC, Marinko, Dr; SMARICA, Radosav, Dr; FRANKIC, Aleksandar, Dr: Department of Radiology, Medical Center, Sibenik (Rengenoloski zavod Medicinskog centra u Sibeniku), Sibenik.

and Diagnosis of the Kidney Echinococcus" "X-ray Symptoms

Zagreb, Jijeonicki vjesnik, vol 88, No 2, 1966, pn 151-156 Abstract / Tuthors Finglish summary 7: Diagnosis of the echinococcus of the kidney has specificities which can be observed in the regular X-ray of the kidney, but are particularly visible when the cyst is calcified. In ill-defined cases pyelography is the most reliable examination method. It has its own X-ray characteristics as is confirmed by the cases observed by the authors, all of them being surgically verified. 1 Yugoslav and 5 Western references.

Manuscript received 22 Dec 64.

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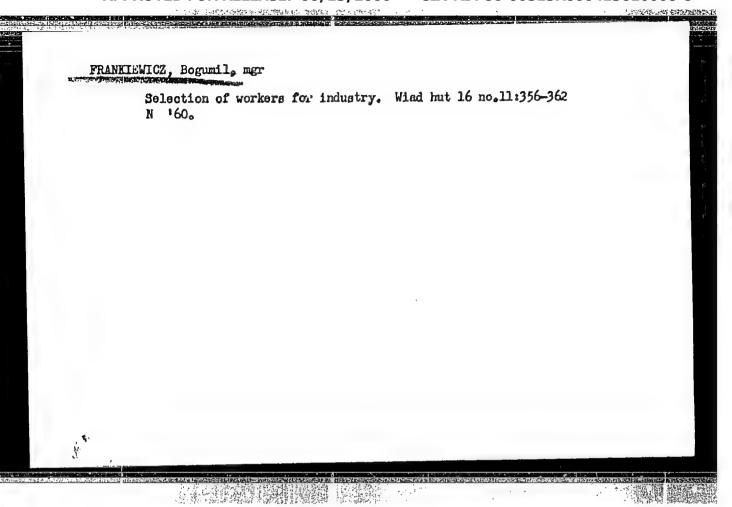
FRANKIEWICZ, B.

Some experiences from the psychological selection of mine workers. p. 148.

PRZEGLAD GORNICZY. (Stowarzyszenie Naukowo-Techniczne Inzymierow i Technikow Gornictwa) Katowice, Poland, Vol. 15, no. 9, Sept. 1959.

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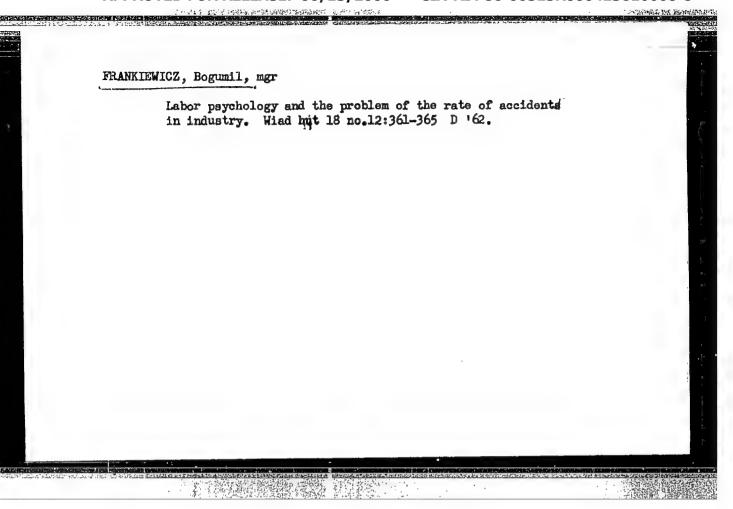
FRANKIEWICZ, Bogumil, mgr.; WITC92EK, Alfred, mgr.

Psychological tests and possibilities of forecasting success in work on the example of hoisting engineers. Frzegl gorn 17 no.12: 652-658 '61.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413610008-8"

FRANKIENICZ, Bogumil, mgr; SIKORA, Antoni, mgr.

Industrial psychology in metallurgical industries; methods and results of researches of job fitmess. Wiad hut 17 no.11:319-323 % '61



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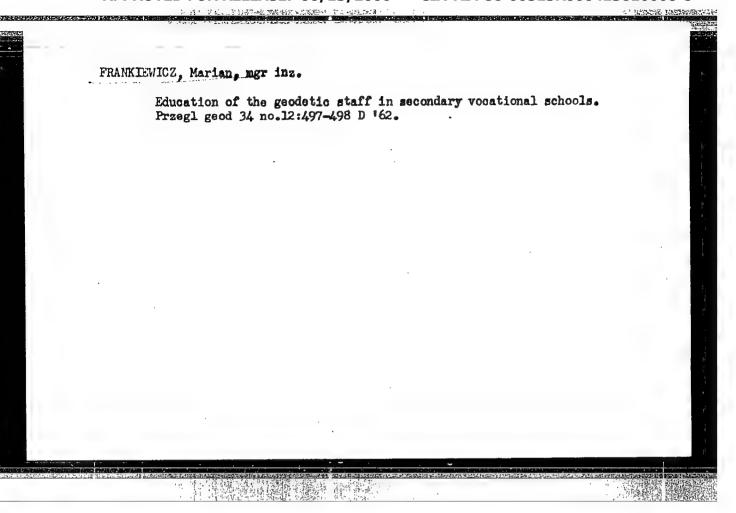
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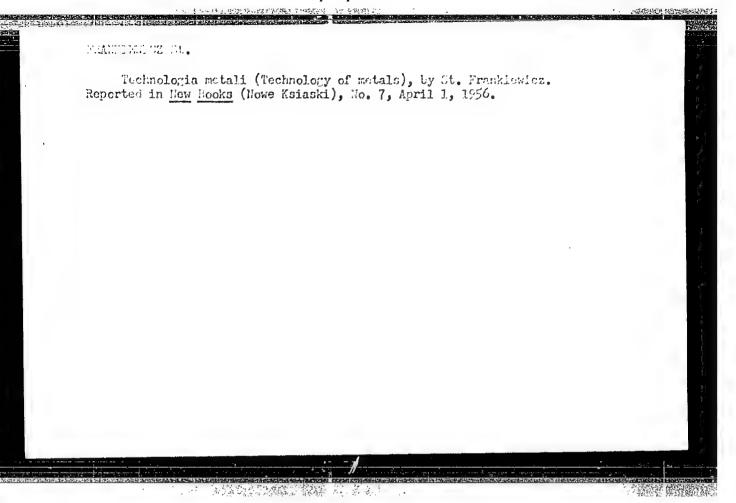
2. Chairman of the Hatowice Brun has the Foliah Physiological Society.

FRANKIEWICZ, Bogumil, mgr

For a tighter link between psychology and industrial practice. Wiad hut 21 no.1:17-20 Ja '65.

1. Chairman, Katowice Branch of the Polish Psychological Society.





FRANKIEWICZ, Stanislaw, dr inz.

Activities of the Textile Laboratory of the Central Institute of Industrial Safety. Przegl mech 22 no.7/8:218-220 10-25 Ap '63.

1. Head, Department of Textiles, Central Institute of Industrial Safety, Warsaw.

FRANKIEWICZ, Stanislaw, dr inz.

Organization of the Provincial Club of Engineering and Reticularian in Lodz. Progl mech 22 no.7/8:249-250 10-25 Ap 163.

1. Chairman, Voivodeship Engineering and Mateionelization Club, Lodz.

FRATKIEMICK, M.

PRZEGIAD GEOGRAFICZNY, POLICE GEOGRAFICE L REVIEW, (Polska Akadenia Mauk. Instytut Geografii) Warszawa Vol. 27, no. 2, 1955

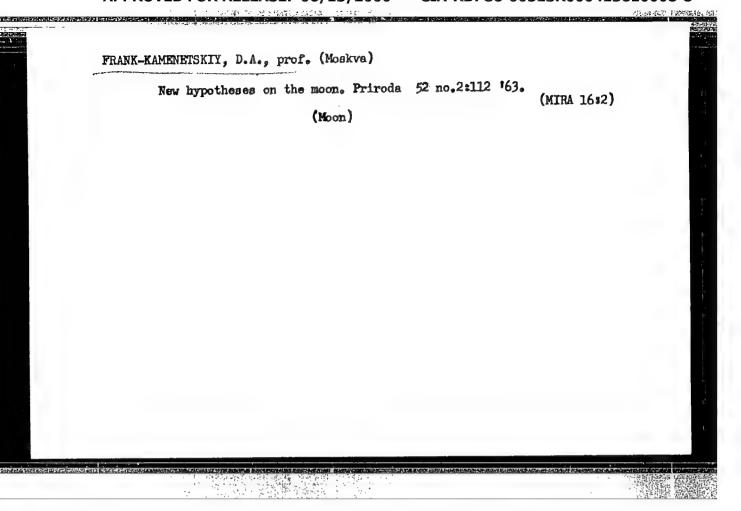
So. East European Accessions List Vol. 5, No. 1 Jan. 1956

Origin of chemical elements. Khim. v shkole 17 no.6:3-15 N-D *62. (MIRA 16:1)

(Chemical elements)

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CIA-RDP86-00513R000413610008-8



FRANK-KAMENETSKII, D.A. [Frank-Kamenetskiy, D.A.], prof., d-r na fiz.-mat. nauki (Moscow)

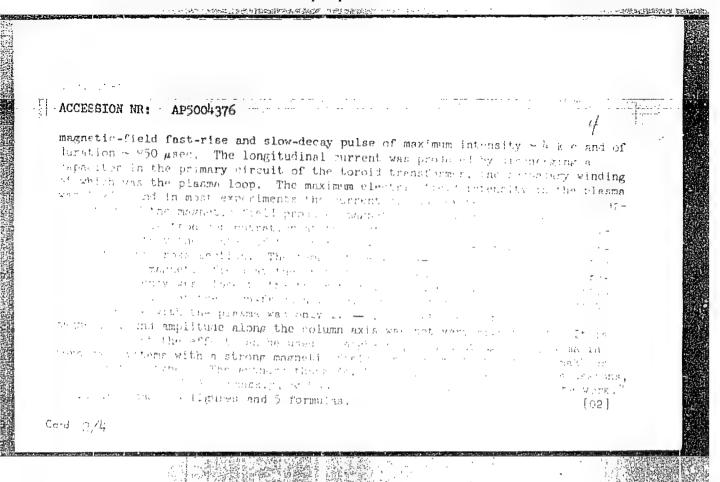
Seven faces of the universe P iroda Bulg 13 no.4:94-95 Jl-Ag 164.

TITLE: Magnetosonic resonance in a toroidal system

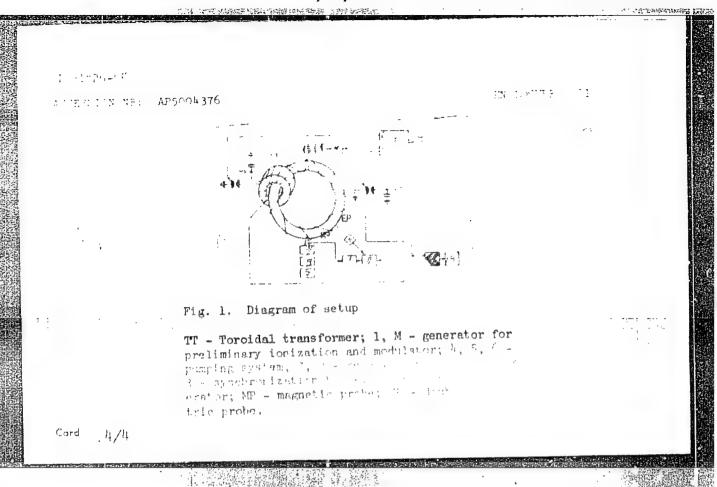
SCHRUE: Churnal eksperimental'noy i teoreticheakoy fiziki, v. 4°, no. 1, 1965, 72-7.

TOPIC TAGS: magnetosonic resonance, toroidal plasma system, magnetic sound amplification, plasma heating, Tokomak

ABSTRACT: To provide better conditions for prolonged plasma confinement, the authors used a toroidal chamber with longitudinal number, in thich the possibility of exits used a toroidal chamber with longitudinal number, in thich the possibility of exits used a toroidal chamber with longitudinal number. In the experimental setup is shown in Fig. 1 of the Enclosure. A large ratio of longitudinal magnetic field to the field of the core of particular and the interest of the field was a described by V. D. chaffactor to be accounted b



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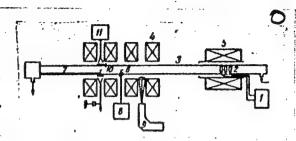
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EPF(n)=2/EWT(1)/ETC(f)/EWG(m) IJP(c) L 22192-66 SOURCE CODE: UR/0056/66/050/001/0039/0045 AP6004915 ACC NR: 80 AUTHOR: Vdovin, V. L.; Rusanov, V. D.; Frank-Kamenetskiy, D. A. ORG: none Investigation of nonpotential drift waves in a stationary magnetoacoustic plasma 2/1 +4/75 SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 50, no. 1, 1966, 39-45 TOPIC TAGS: magnetoactive plasma, magnetoacoustic effect, turbulent plasma, hydrogen plasma, electron temperature, electron density, acoustic noise, drift mobility ABSTRACT: The purpose of the investigation was to check on the theoretically predicted excitation of solenoidal (nompotential) drift fluctuations in an inhomogeneous plasma. To this end, the authors investigated magnetic noise in a setup in which the plasma is produced by the magnetoacoustic method in a glass tube situated in a fixed magnetic field (Fig. 1). The plasma flowed continuously along the axis into the measured volume and the magnetic field varied from 700 to 2500 oe. The measurements were made on hydrogen plasma in the pressure range 1 x 10-3--5 x 10-3 nun Hg. The rf power introduced into the discharge was 4 kw. In this pressure range the electron temperature varies from 4 to 10 ev. The electron density at the Card 1/3

L 22192-66

ACC NR: AP6004915

Fig. 1. Diagram of experimental apparatus: 1 - rf generator, 2 - rf coil, 3 - glass tube, 4 - main magnetic field coil, 5 - auxiliary magnetic field coil, 6 - radially movable electric probe, 7 - longitudinally movable electric probe, 8 - spectrum analyzer, 9 - monochromator, 10 - Fabry-Perot interferometer, 11 - signal generator.



center of the chamber was 5 x 10¹¹--5 x 10¹² cm⁻³. Two diagnostic techniques were used in these experiments, determination of the electron density with a double electric probe and a microwave Fabry-Perot interferometer operating at 8 mm, and determination of the electron temperature by double electric probes and by an optical method. Measurements were made of the spatial distributions of the field components, of the dependence of the frequency on the magnetic field, and of the phase relationships of the oscillations. Two types of magnetic noise were observed. One was a strong solenoidal noise (approximately 0.05 oe) with fundamental frequency of the order of 100 kcs. Its spectrum had a high harmonic content, with most of the noise power concentrated in the harmonics at low pressures. The dependence of this noise on the plasma parameters was investigated and the results are discussed from

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the point of view of possible excitation of Alfven drift waves in the inhomogeneous plasma. In addition to the magnetic noise, intense potential electric fluctuations were observed, similar to those investigated in detail elsewhere (Yadernyy sintez [Nuclear Fusion], 1966, in press). It is deduced that the magnetic fluctuations observed in the present investigation are not a component of the potential fluctuation investigated earlier. The high frequency noise observed in the experiments (3--5 Mcs) is of magnetoacoustic nature, but its excitation is not yet clear. The authors thank Ye. K. Zavoyskiy and L. I. Rudakov for valuable comments and V. Sannikov for help in the experiments. Orig. art. has: 7 figures and 1 formula.

生。在中国的政治政策的法院,因此的政治的关键,就是这种政治的理解,就是对政治的政治,不是不是不是,但是不是不是不是,但是不是不是,但是不是不是,但是不是不是,但

SUB CODE: 20/ SUBM DATE: 02Aug65/ ORIG REF: 005/ OTH REF: 003

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3/879/62/000/00J/086/088

AUTHOR: Frank-Kamenetskiy, G. Kh.

Application of the theory of orthotropic shells of re-TITLE:

volution to the design of complex structures in water

turbine construction

Teoriya plastin i obolochek; trudy II Vsesoyuznoy konfe-SOURCE:

renteii, L'vov, 15-21 sentyabrya 1961 g. Kiev, Isd-vo AN UJSR, 1962, 552-556

TEXT: The author extends the theory of anisotropic shells to the case of variable rigidity. He obtains the following equations in terms of Meisner's variables:

$$\sqrt{1 + \frac{(\sqrt{D_1})!}{\sqrt{D_1}}} \sqrt{1 + \frac{D_0}{D_1}} \left(\frac{\sqrt{1 + D_0}}{\sqrt{1 + D_0}} \right)^2 + \frac{1}{R_2 D_1} V = -\frac{1}{\sqrt{D_1}} F_2(a);$$

Card 1/3

Application of the ...

3/879/62/000/000/086/038 J234/D303

$$V'' + \frac{\left(\frac{V}{h^{2}}\right)^{V}}{\frac{V}{h_{2}}}V' - \frac{B_{0}}{B_{1}}\left(\frac{V'}{V}\right)^{2}V - \mu \frac{\left(\frac{V'}{h_{1}}\right)^{V}}{\frac{V}{h_{2}}} - \frac{Eh_{2}}{R_{2}} \psi = -\frac{Eh_{2}}{R_{2}} \psi_{0}(s)$$
 (5)

These are reduced to a homogeneous form by transformation of variables and solved by asymptotic integration for large k (thin

$$V = \frac{\lambda_{2}^{2}}{\lambda_{1}^{2}} \frac{\sin^{2} F(\psi) \left[A_{1} e^{\psi} \cos(\psi + a_{1}) + A_{2} e^{-\psi} \cos(\psi + a_{2}) \right];$$

$$V = \frac{\lambda_{2}^{2}}{\lambda_{1}^{2}} \frac{\sin^{2} F(\psi) \left[A_{1} e^{\psi} \sin(\psi + a_{1}) - A_{2} e^{-\psi} \sin(\psi + a_{2}) \right] - \frac{F_{2}(s)}{\cos s}$$

Card 2/3

(9)

Application of the ...

S/879/62/000/000/086/088 D234/D308

The example of a truncated cone is considered, with an application of the formulas to the design of a cover for a hydraulic turbine of a new type. There is 1 figure.

Card 3/3

FRANK-KAMENETSKIY, G.Kh., inzh.

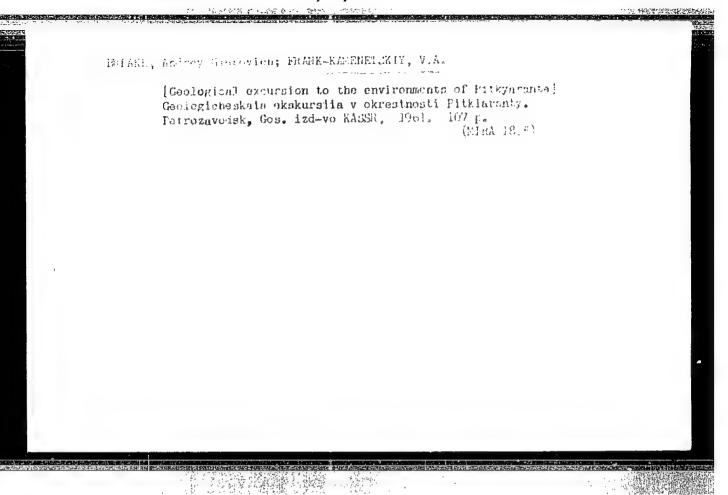
Application of anisotropic plate theory in the design of the cover of a Francis turbine. [Trudy] LMZ no.10:133-148 '64.

Design of the cap of a turbine with shell structure for an experimental unit of the Volga Hydroelectric Power Station (22d Congress of the CPSU). Ibid.:169-190

(MIRA 18:12)

ARONSON, A.Ya., kand. tekhn. nauk; BUGOV, A.U., kand. tekhn nauk; MALYSHEV, V.M., kand. tekhn. nauk; SKRYLEV, I.A., inzh.; FRANK-KAMENETSKIY, G.Kh., kand. tekhn. nauk; POSTOYEV, V.S., kand. tekhn. nauk, retsenzent; ORGO, V.M., kand. tekhn. nauk; red.

[Strength calculation of the perts of hydraulic turbines]
Raschet na prochnost' detalei gidroturbin. Moskva, Mashinostroenie, 1965. 391 p. (MIMA 18:10)



KUKHARENKO, A.A.; FRANK-KAMENETSKII, V.A.; SHAFRANOVSKII, I.I.

Onice more on the reference book "Minerals"; a review. Zap.Wses.min.ob-va
92 no.1:108-111 '63. (Minerals)

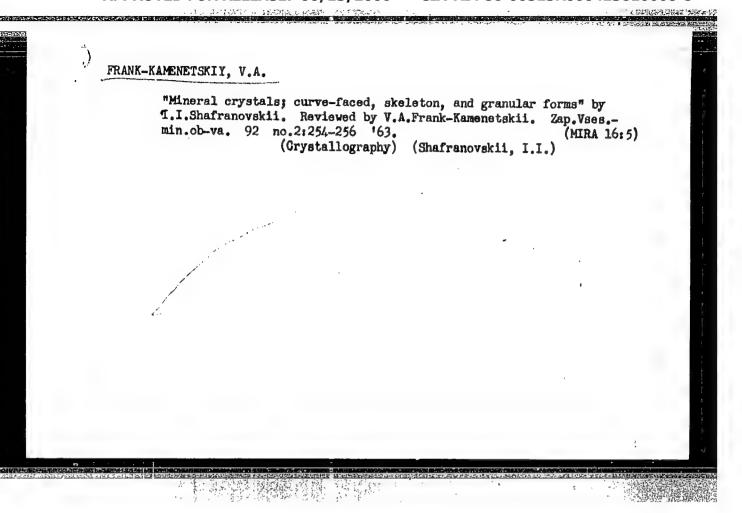
(Minerals)

RIMSKAYA-KORSAKOVA, O.M.; BUROVA, T.A.; FRANK-KAMENETSKIY, V.A.

"Lueshit" from carbonatites of the Kovdor massif. Zap.Vses.min.ob-va. 92 no.2:173-183 '63. (MIRA 16:5)

1. Leningradskiy gosudarstvennyy universitet i Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR.

(Kola Peninsula-Minerals)



FRANK-KAMENETSKIY, V.A.; SAL'DAU, E.P.; SOKOLOVA, Ye.P.

Second All-Union Conference on the X-Ray Diffraction of Minerals. Zap. Vses. min. ob-va 93 no.1:118-120 '64 (MIRA 18:2)

ALYAVDIN, V.F.; BONSHTEDT-KUPLETSKAYA, E.M.; CODLEVSKIY, M.N., doktor geol-mineral.nauk; KOMKOV, A.I.; KUKHARENKO A.A.. prof.; SAL'DAU, E.P.; SMOL'YANINOVA, N.N.; BORNEMAN-STARYNKEVICH, I.D.; TATARSKIY, V.B., prof.; FRANK-KAMENETSKIY, V.A.

From the Commission on New Minerals of the Minerological Society of the U.S.S.R. Zap.Vses.min.ob-va 94 no.5:555-565 '65. (MIRA 18:11)

l. Komissiya po novym mineralam Vsesoyuznogo mineralogicheskogo obshchestva. 2. Predsedatel' Komissii po novym mineralam Vsesoyuznogo mineralogicheskogo obshchestva (for Frank-Kamenetskiy). 3. Zamestitel' predsedatelya Komissii po novym mineralam Vsesoyuznogo mineralogicheskogo obshchestva (for Bonshtedt-Kupletskaya). 4. Sekretar' Komissii po novym mineralam Vsesoyuznogo mineralogicheskogo obshchestva (for Sal'dau).

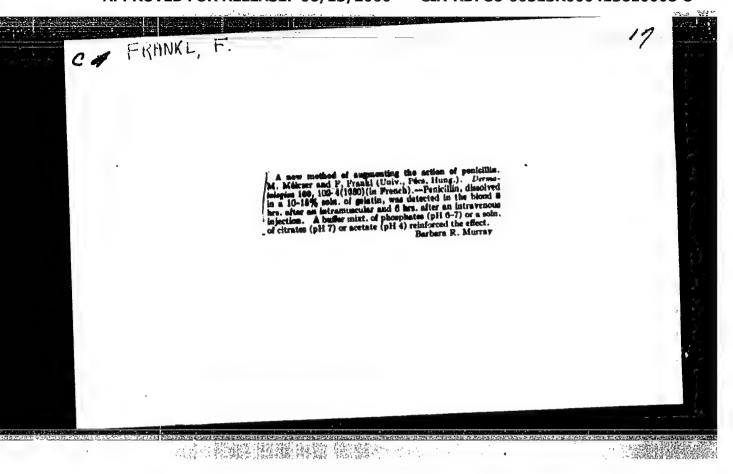
FRANKL, A.; GROSSMAN, A.

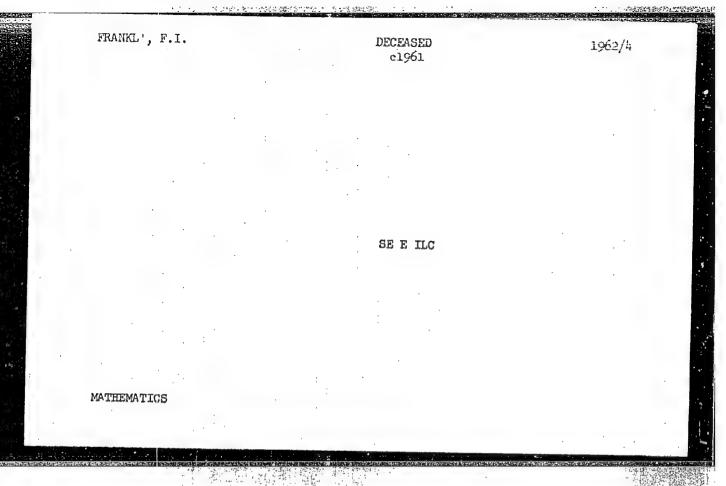
The dependence of the content of boron in coal tar on the property of coal and the conditions of degassing. p. 186.

KAKS, SMOLA, GAZ: Katowice, Poland. Vol. 4, no. 4, July/ Aug. 1959.

Monthly List of East European Accession. (EEAI) LC, Vol.9, no. 1, Jan. 1960.

Uncl.





35853 5/044/62/000/002/042/092 26.2000 C111/C444 AUTHOR: Frankl! F. I.

TITLE: On the direct problem of the theory of the Laval nozzle:

PERÍODICAL: Referativnyy zhurnal, Matematika, no. 2, 1962, 74-75, abstract 2B327. ("Uch. zap. Kabardino-Balkarsk. un-t,"

1959, vyp. 3, 35-61)

One constructs the plane stationary irrotiational flow TEXT: of am ideal compressible gas in a Laval nozzle, the walls of which are little different from the walls of another Laval nozzle in which the gas flow is known. This construction leads in the hodograph plane to the determination of the variation $\delta\omega$ of the flow function ω , which has been transformed according to Legendre and which in the neighborhood of the velocity of sound approximatively satisfies the equation

 $\delta\omega_{\theta\theta} + \partial(\delta\omega_{\eta}/\eta)/\partial\eta = 0 \qquad (1)$ the values of $\delta\omega$ on the curves \overline{L}_1 and \overline{L}_2 are given; \overline{L}_1 and \overline{L}_2 are the images of the walls of the "known" Laval nozzle in the hodograph plane. Here 0 is the inclination angle of the velocity vector with Card 1/3

On the direct problem of the

s/044/62/000/002/042/092 0111/0444

respect to the 0x - axis; $\eta(v)$ is a certain function of the absolute value of the velocity which the author has introduced. The explanation for such a position of the problem for unsymmetrical flows

One finds families of special solutions $\omega_{\nu}(\theta,\eta) = g^{\nu} \varepsilon_{\nu}(\theta/g)$ of (1) which on the characteristics $g^2 = \theta^2 + 4\eta^2/9 = 0$ are regular only for $\gamma = m/3$ ($m = 0, 2, 3, \ldots$), where $g_{\nu}(t)$ is expressed by hypergeometrical polynomials. By aid of these solutions one investigates the singularities of $\delta \omega$ in the neighborhood of the centre of the flow (the point of intersection of the sound line with the stream line which is orthogonal to it). One investigates the families of special solutions which are obtained from (1) by separation of the variables.

One proves very detailed the uniqueness of the solution of the boundary value problem of "Frankl-Moravets" for the equation (1); thereby the boundary values of the solution are given on the curves L_1 , L_2 , which change its inclination to the axis $\theta = 0$ monotonously; Card 2/3

On the direct problem of the ... \$/044/62/000/002/042/092

and extend in positive direction of this axis into infinity; one searches for the solution of the problem in a domain which is bounded by these curves and by two characteristics of different families, or climating in the origin (contre of flow). The method of his proofs the author (RZh. Mat, 1960, 5332). At last one carries out several are corrected and completed in a later paper of the author. (Ref. 28326). Abstracter's note: Complete translation.

Card 3/3

S/058/61/000/012/004/083 A058/A101

AUTHORS:

Frankl', F.I., Arynov, A.A.

TITLE:

Photon-gas discharge from a vessel through a Lavalle nozzle

PERIODICAL:

Referativnyy zhurnal, Fizika, no. 12, 1961, 22, abstract 12A340 (Uch. zap. Kabardino-Balkarsk. un-t, 1959, no. 3, 63 - 65)

TEXT: On the basis of the relativistic dynamics of gases, the authors investigate steady discharge of a photon gas from an infinitely wide vessel through a Lavalle nozzle for given temperature in the vessel.

[Abstracter's note: Complete translation]

Card 1/1

35854

26,2000

S/044/62/000/002/044/092 C111/C444

AUTHOR:

Frankl', F. I.

TITLE:

The generalisation of the Tricomi-problem and its

application to the solution of the direct problem of the

Laval nozzle

PERIODICAL:

Referativnyy zhurnal, Matematika, no. 2, 1962, 75, abstract 2B329. ("Och. zap. Kabardino-Balkarsk. un-t".

1959, vyp. 3, 79-93)

TEXT: Considered is the same gas-dynamical problem as in the preceding paper of the author (Ref. 2B327), only one supposes - in the opposite to the case there discussed (the walls of the nozzle form at infinity upstream an expanding angle, and the velocity becomes zero) - that the walls of the given and of the transformed nozzle upstream run out in two parallel straight lines at infinity, and that the velocity is given and different from zero. Concerning the known flow in the given nozzle one supposses that the flow domain D in the hodograph plane is bounded by the socalled normal curve and by two characteristics of different families of (1) (all indications look up in Ref. 2B327), which originate from the ends A and C of the normal

Card 1/3

S/044/62/000/002/044/092 C111/C444

The generalisation of the . . . curve on the axis $\eta = 0$. The de-

curve on the axis η = 0. The determination of $\delta\omega$ leads to the solution of the Tricomi problem for (1) in D under the condition of $\delta\omega/\gamma$ being continuous on η = 0.

After the transformation of variables

$$z = \delta \omega$$
; $x = 2 \theta/\theta_0 - 1$; $y = sgn \eta \cdot \theta_1^{-4/3} \cdot \eta^2 (\theta_1 = |AC|)$

one obtains for the equation

sen
$$y | y |^m z_{xx} + z_{yy} = 0 (m = -1/2)$$
 (2)

in D' (image of D in the (x,y) plane) a boundary value problem, to which a continuous solution of (2) is searched, satisfying on A'C' the condition

$$z_y(x, +0) = -z_y(x, -0) = v(x); -1 < x < 1,$$
 (3)

and the ordinary boundary conditions of the Tricomi problem. The condition (3) here substitutes the continuity condition for z on the axis y=0 in the Tricomi problem.

Card 2/3

The generalisation of the . . .

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According to a mothod, formerly used by the author (Frankl', F. I., Izv. ak SSSR, Ser. matem. 1945, 2, no. 2) one proves the uniqueness of the boundary value problem, obtained for (2), if $-1 \le m \le 0$. One points problem for (2), where $-1 \le m \le 0$ (without the condition (3)) cannot be proved by this method.

Adjoining the solution of the problem is reduced to the well-known singular integral equation of Tricomi for the unknown quantity v(x), according to a method rather ordinary in the theory of boundary value problems for equations of mixed type. The solution of this equation is written down. The class of functions in which the solution of this equation is searched, and also the classes of functions to which the boundary conditions of the boundary value problem and its solution shall belongs to the class of functions which is determined by the theorem

 $oxedsymbol{igl[Abstructer's note: Complete translation.igl]}$

Card 3/3

S/044/62/000/C02/043/092 C111/C444

AUTHOR:

Frankl', F.

TITLE:

Notes to the paper of F. I. Frankl' "On the direct

problem of the theory of the Laval nozzle"

PERICUICAL:

Referativn, y zhurnal, Matematika, no. 2, 1962, 75,

abstract 28238. ("Uch. zap. Kabardino-Balkarsk. un-t",

1959, vyp 3, 349)

TEXT:

Several precisitions and completions are given to the

bibliography of the cited paper of the author (Ref. 2B327).

Abstracter's note: Complete translation.]

Card 1/1

s/044/62/000/003/041/092 C111/C444

AUTHOR:

Frankl', F. I.

TITLE:

Investigations in the domain of nearsonic flows

PERIODICAL:

Referativnyy zhurnal, Matematika, no. 3, 1962, 71-72, abstract 3B304. ("Inzhenernyy zh."(formerly Inzhenernyy sb.")

1961, 1, no. 1, 29-34)

A summary of the results having been obtained by the author TEXT: and his pupils lately in the theory of plane stationary irrotational flows of an ideal gas without consideration of the viscosity and of the

heat-conduction.

In § 1 direct problems are formulated, concerning the Laval nozzle and the afflux of a profile by a flow, having the velocity of sound at infinity. These problems are solved according to the method of small disturbances. In the nozzle or in the neighborhood of the profile one searches a flow being little different from a well-known flow, the stream function $\overline{\Psi}(\theta, \delta)$ of which satisfies the well-known Chaplygin equation

 $K(6) \Psi_{66} + \Psi_{66} = 0$

Card 1/4

S/044/62/000/003/041/092 C111/C444

Investigations in the domain of ...

in the hodograph plane; here θ is the inclination angle of the velocity; K and 5 are known functions of the modulus of the velocity w, where K \geq 0 for $6 \geq$ 0. The variation σ_{α} of the function ω which is obtained from the stream function Ψ by a contact transformation, is determined from the solution of a certain boundary value problem for the equation

$$K \omega_{\theta G} + \omega_{\vec{x}\vec{a}} - K^{-1} \omega_{\vec{b}} dK/dG = 0 \qquad (2)$$

In this problem the values $\delta\omega$ are prescribed on the curve L , L being the image of the originally well-known flow in the nozzle or around the profile in the hodograph plane. The uniqueness and the existence of the weak (in a certain sense generalised) solution of this problem for (2) was proved by Moravets (Rzh. Mat, 1960, 6535) and the author (Rzh. Mat, 1961, 18237; 48283). In these proofs the variation δq of the consumption by the nozzle remains arbitrary which fact caused the author to conclude that the transsonic flow is not unique in a smooth Laval nozzle. Yet this conclusion contradicts the experiment as well as the elementary hydraulic Card 2/4

S/044/62/000/003/041/092 C111/G444

Investigations in the domain of ...

utters the assumption that the remaining free parameters (of q and others can be uniquely determined by the condition that the solution and certain combinations of its derivatives in some points of the flow (the centrum of the nozzle, points of intersection of the sound line with the nozzle wall or with the profile) have to be regular. An exact mathematical answer to this question is yet missing.

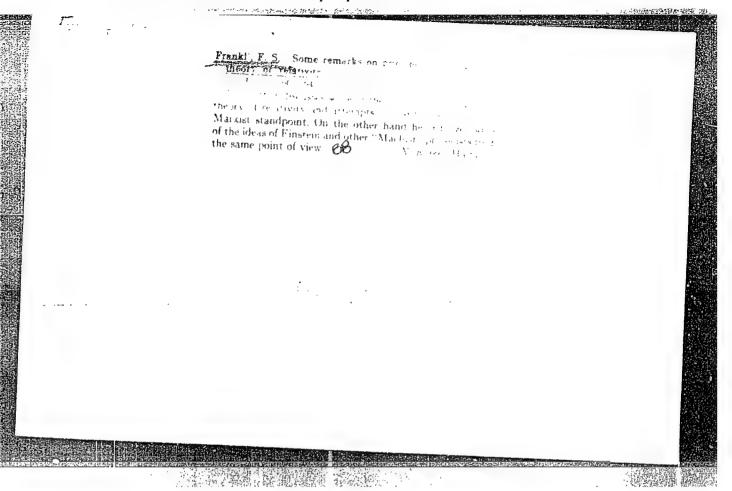
In § 2 one considers nearsonic flows with compression jumps which end in the flow (a local superports zero to the superports the superports are the superports to the superports are the superports.

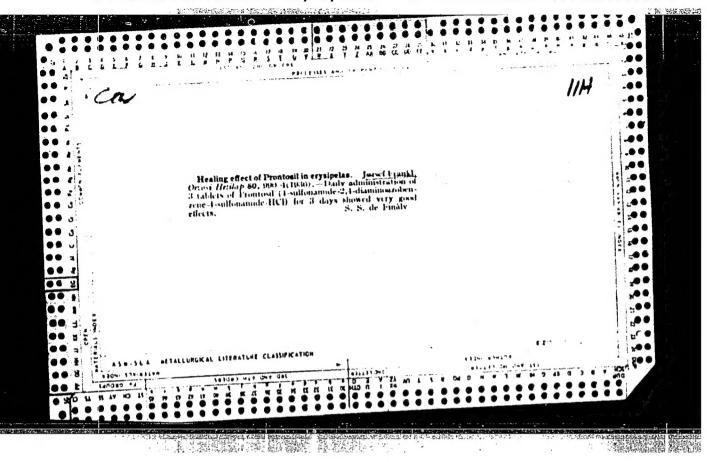
In § 2 one considers nearsonic flows with compression jumps which end in the flow, (a local supersonic zone on the surface of the profile which moves with high subsonic velocity). The author found a particular solution of the Tricomi equation

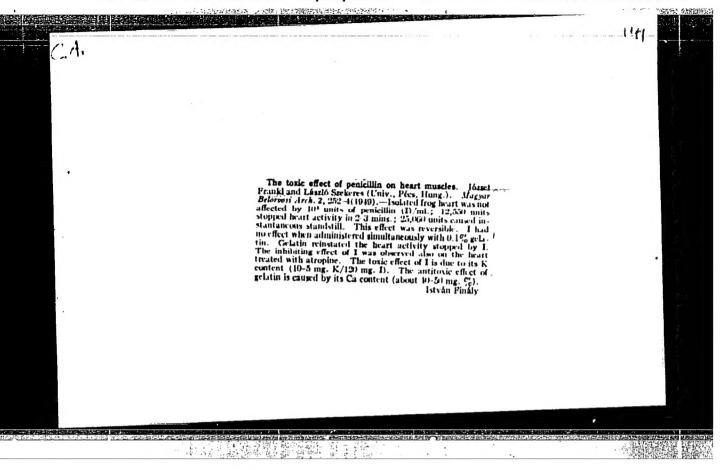
where η is a known function of the velocity; this solution is an example for an unbounded flow of such a type with even compression jumps, where the anterior half of the stream line by its end coincides with the sonic line (Frankl' F. I., Prikl. matem. i mekhan., 1955, 19, vyp. 4). In the supersonic domain of this flow there is formed a small stripe in which the velocity becomes triple-value. The possible causes of this Card 3/4

Investigations in the domain of ... S/044/62/000/003/041/092
effect are discussed; one refers to the generalization of this example on the case of a curved jump; one formulates boundary value problems for (3) in the hodograph plane, the solution of which leads to the construction of flow around a profile with a local supersonic zone.

[Abstracter's note: Complete translation.]

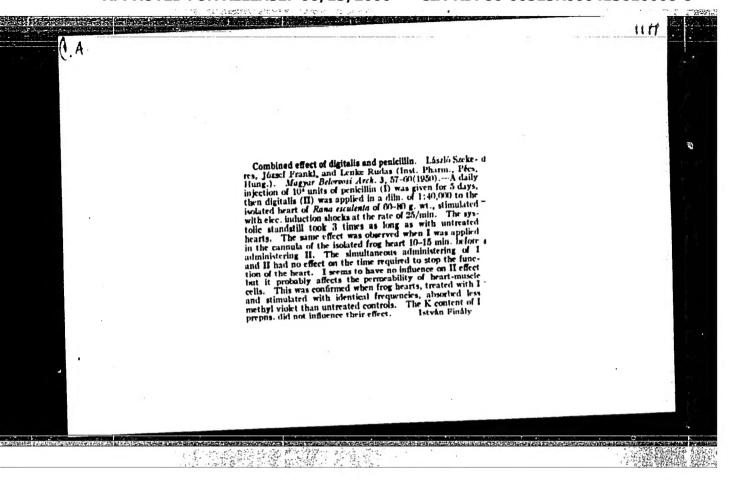






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FRANKL, J.; KORDOVANYI, D.; VASS, I.; SEBESTYEN, J.; VARGA, T.

PAS therapy of extrapulmonary tuberculosis. Orv. hetil., Budap. 92 no. 45:1459-1462 ll Nov. 1951. (CIML 21:3)

1. Doctors. 2. Somogy County Kaposvar General Hospital (Head Physician -- Prof. -Dr. Jozsef Frankl).